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3-14-2006

Digital Commons: NU-IT Day Presentation

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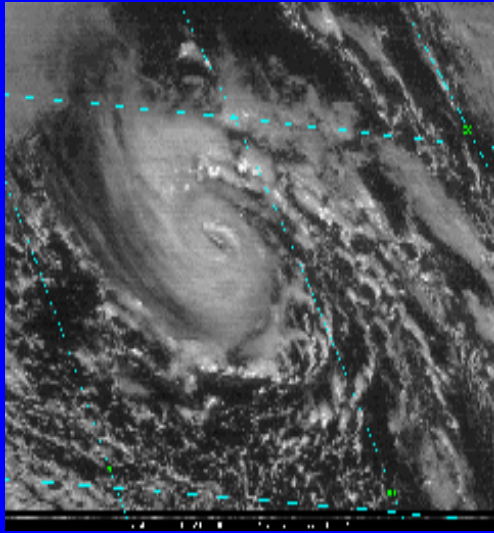
**University of Nebraska
Information Technology Day**

UNL Digital Commons

Paul Royster

Coordinator of Scholarly Communications

UNL Libraries



A convergence of factors has created “a perfect storm” in the library-information world:

1. The crisis in scholarly publishing
2. The crisis in library budgets
3. The challenge of digital preservation
4. The costs of disseminating research

The crisis in scholarly publishing:

- The consolidation of commercial publishers
- decline of library market for monographs
- scholarly publishers issuing fewer books
- university subsidies are flat or decreasing
- no market for new journals



Scholarly publishers' business model is outdated and outmoded

- the more books you publish the more money you lose
- average fixed costs to develop and publish a book is about \$25,000
- average income from a published book is about \$15,000
- You do the math: "We lose money on every item, but we make it up in volume." ???



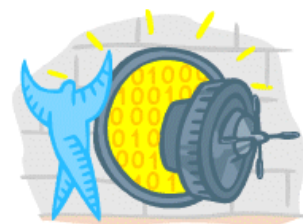
The crisis in library acquisitions budgets

- acquisition budgets are flat, at best
- Prices for subscriptions and electronic databases are approaching the limit of what the market will bear
- annual subscriptions to many journals in science and medicine are in the five figures (i.e. > \$10,000)
- Libraries are now leasing rather than buying content
- 1990: 70% of library acquisition budget was for new monographs
- 2005: 70% of library acquisition budget was for online database access



The challenge of digital preservation

- Electronic materials disappear when they go off-line
- Superseded software and file formats are not supported
- Magnetic storage media have a limited life span (10 years or less)
- Materials are being created at an expanding rate
- When libraries do not continue their subscription to electronic resources, they lose access to materials
- Many places on the World Wide Web are here today, gone tomorrow: "Error 404, file not found"



The costs of research

The public (or the university) pays for research multiple times by paying for

- salary and benefits of researchers & support staff
- labs, equipment, materials, and overhead
- the research funding and grants
- (sometimes) publication fees to publish the research
- subsidies to university presses
- buying (or leasing) the publication



The open-access movement, digital archives, and “Cyberinfrastructure”

Goals / Values

- long-term preservation of electronic resources
- widest possible access to research and scholarship
- respect for intellectual property rights





Digital Commons

digitalcommons.unl.edu



Digital Commons is:

- a new program started by the Libraries in June 2005
- an “Institutional Repository” (IR) = an digital archive for UNL-related documents
- an opportunity for electronic publishing



The “Institutional Repository” (IR)

- receives and archives one electronic copy
- preserves this copy permanently in the UNL Libraries collections
- creates a stable URL with a unl.edu address
- provides and controls electronic access
- migrates the data as formats evolve



Electronic Publishing

- places scholarly publication tools directly in the hands of the faculty: publishing online requires 1) MS Word, 2) a browser, 3) an email address
- each publication series is controlled by its own editorial board
- no limits on article length or number, size, or colors of illustrations
- *"Freedom of the press is limited to those who own one."*-- A. J. Liebling



What does it contain ? (3/14/06)

- 9,503 UNL dissertations
- 1,419 articles, ebooks, & presentations
- 1 electronic journal
- 138 "communities"
- 193 series
- Works from more than 100 UNL faculty & researchers



An “Open Access” archive

- “Open Access” means anyone can browse, read, and download full-text
- **Not** limited to specific institutions or domains; **not** limited to subscribers
- Dissertations in UNL’s IR are open access, but not free to outsiders.
- Access to all other materials is free.
- Access to other materials can be restricted at depositor’s request.



Who goes there ? (or how many ?)

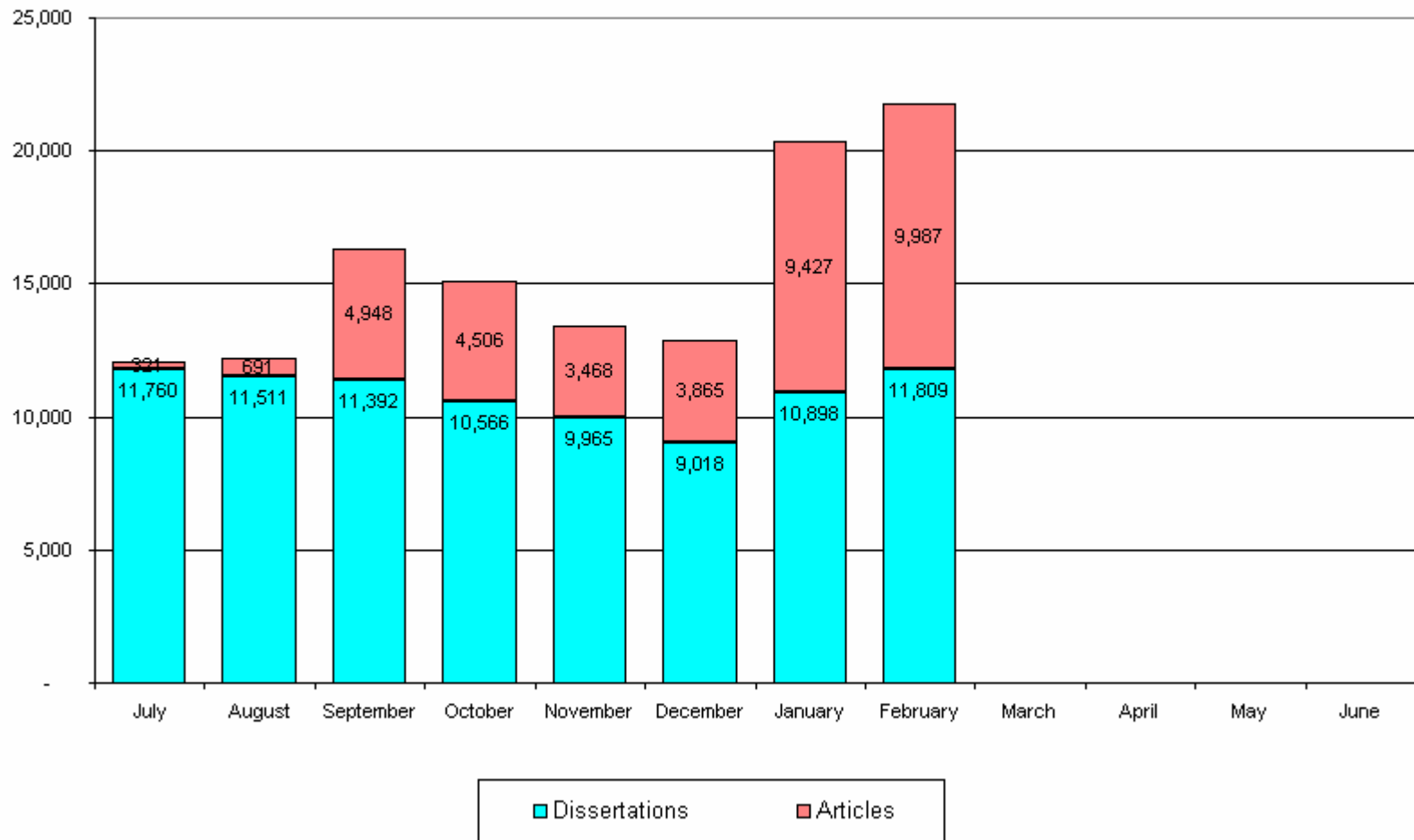
- 124,132 “hits” in first 8 months
- 36,617 downloads in 8 months
- 8,963 downloads in February 2006

- Most downloaded work:
 - “Online Dictionary of Invertebrate Zoology”
 - = 6,669 downloads thru 3/9/06

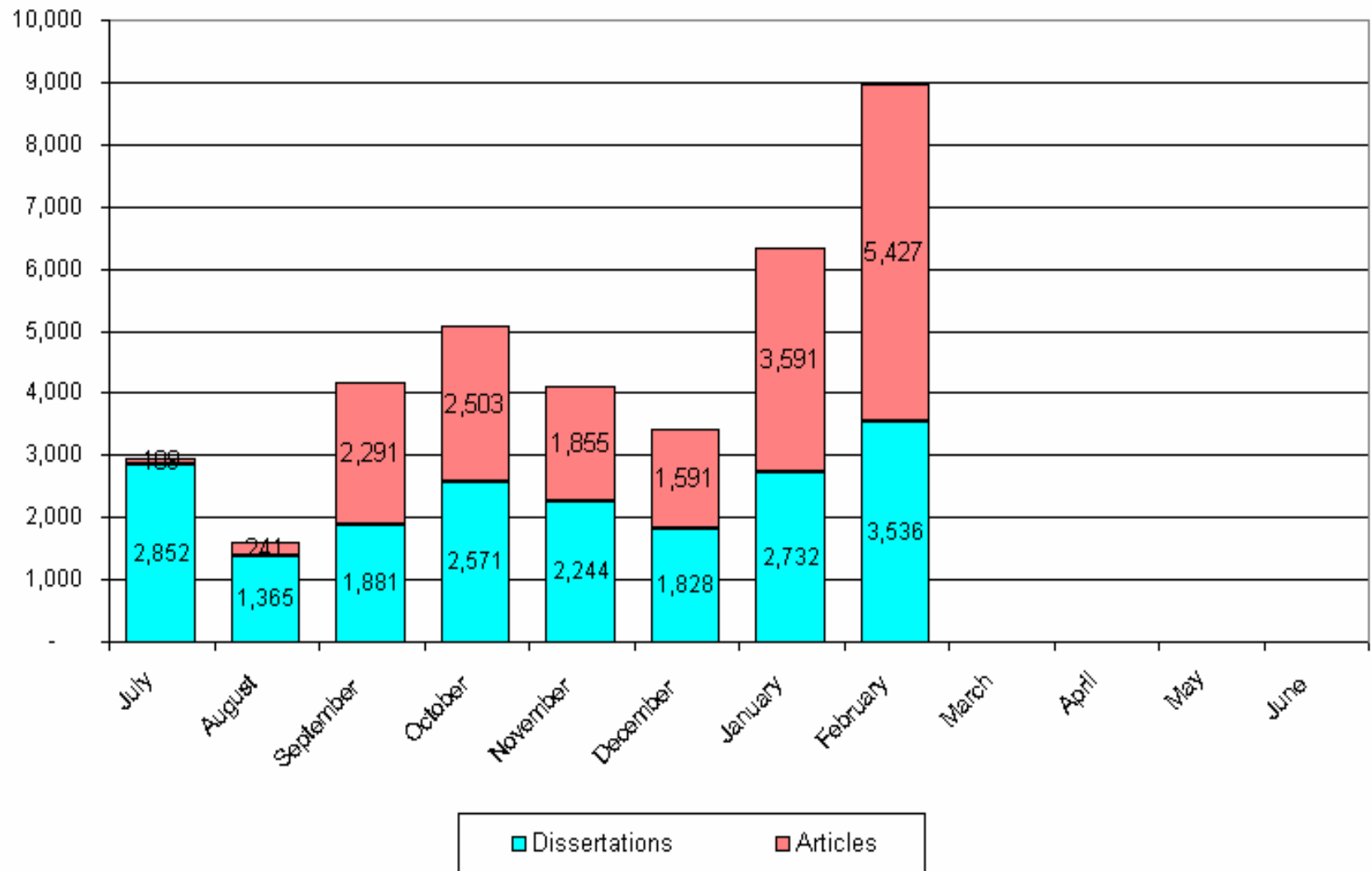
Repository Contents



IR Hits (monthly)



IR Documents Downloaded (monthly)





Benefits: online work is

- accessible immediately, 24/7, worldwide
- visible to common search engines (such as Google and Google Scholar)
- viewed and cited more frequently, especially by students
- identified with the author's name and date of submission
- collected together in one place
- permanently housed, even after author retires or moves to another institution or to a different "plane of existence"



Who controls the copyright ?

- the author/creator or the party to whom copyright has been sold or licensed by the author
- not the library; not the university (unless by separate agreement)
- Online publication does not affect the copyright of previously published works.
- Online publication establishes copyright for previously unpublished works.



Rights to published works

- 93% of journals allow pre-publication posting to an IR
- 60% of journal publishers have blanket policies allowing post-publication deposit
- most of the remaining 40% of publishers will give authors permission to deposit in their home institution's repository



Publishers with policies permitting archiving:

- American Economics Association
- American Institute of Physics
- American Mathematical Society
- American Psychological Association
- Am. Soc. of Biochemistry and Molecular Biology
- American Society of Plant Biologists
- Annual Reviews
- Arnold Publishers
- BioMed Central
- Biophysical Society
- **Blackwell**
- BMJ Publishing Group
- CAB International
- **Cambridge University Press**
- Ecological Society of America
- **Elsevier**
- **Haworth Press**
- **John Wiley & Sons**
- **Johns Hopkins University Press**
- Kluwer
- **Marcel Dekker**
- National Academy of Sciences
- Nature Publishing Group
- **Oxford University Press**
- **Sage**
- Springer Verlag
- **Taylor & Francis**
- **University of California Press**
- **University of Chicago Press**

Source: <http://www.sherpa.ac.uk/index.html>



The Library wants to publish:

- Previously published articles
- Presentations, talks, unpublished manuscripts
- Out-of-print books
- Hard-to-find texts & documents
- Teaching materials
- Research, scholarship, or creative activity of any kind



The Digital Commons offers:

1. Immediate electronic publication, with 24/7, worldwide, free access to materials
2. Design & typesetting services
3. Permissions & copyright clearance
4. Regular usage reports by email
5. Permanent URL for linking
6. Long-term archiving, storage, and migration.



Getting started: the D.I.Y. model

1. Find an existing series; or establish a new one (1-page questionnaire)
2. Log in to register and receive a password at <http://digitalcommons.unl.edu/cgi/myaccount.cgi>
3. Begin uploading your own Word or pdf files

Submitting an article takes less than 2 minutes.



Getting started: the **D.I.F.M.*** model

1. Email me your *vita* or list of publications: proyster@unl.edu
2. (There is no step 2.)

*D.I.F.M. = "Do it for me"



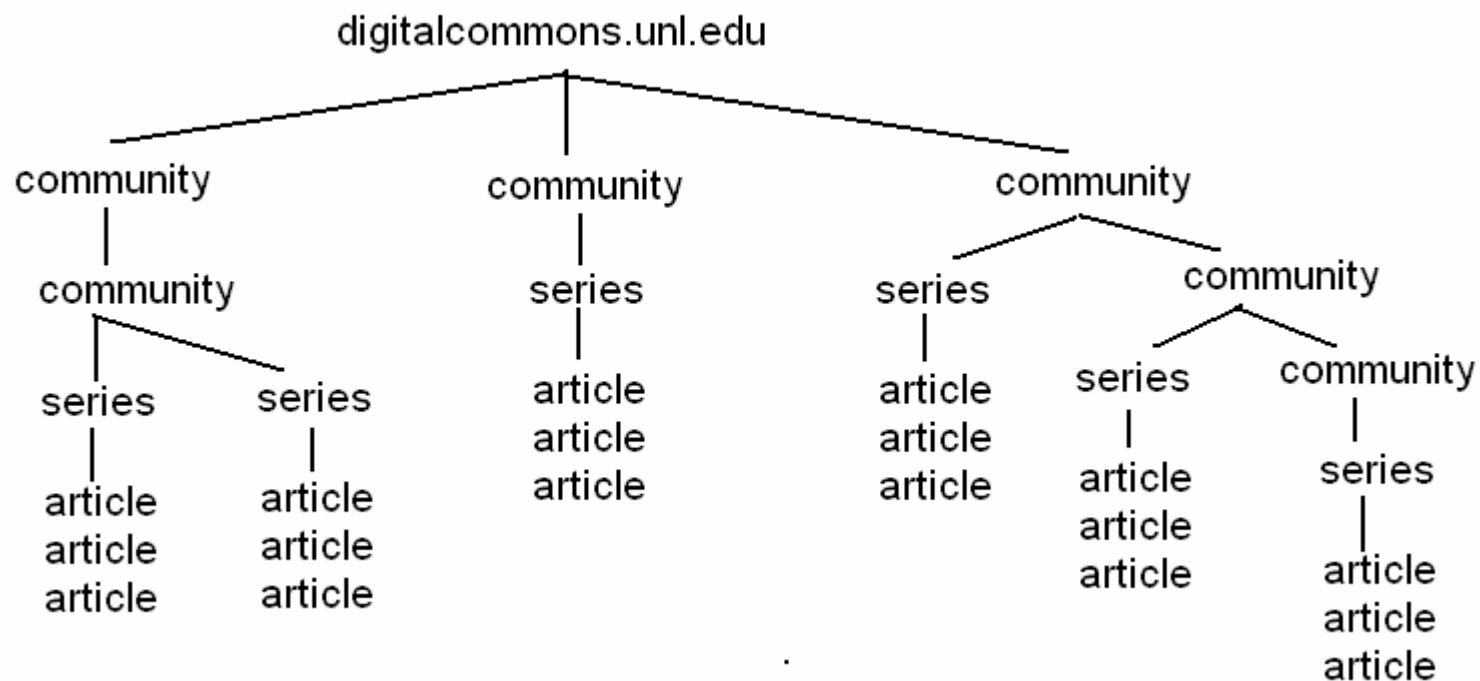
To establish a new “series”

1. Decide its affiliation or sponsoring “community” (department, school, college, etc.)
2. Give it a name
3. Recruit or volunteer the series editor(s)
4. Email the information to proyster@unl.edu



You can publish your own work, plus work from colleagues at this or any other institution.

Site structure



Article page

Metadata:

- title, author(s), comments, abstract, keywords
- format, size, and date of all linked files

Link to download document

Links to download supplemental files

Links to go to

- series & higher-level communities
- my account, help, policies, etc.
- UNL Libraries
- UNL



Digital Commons
full path

List of all articles by this author w/ links

User Account

UNL Libraries
iris

UNL.edu

Document file

default = .pdf

toggle on =
any file type

.doc
.jpg
.tif
.pdf

.htm
.wks
.bmp
.cdr

.gif
.wmf
.mpg
.mp3

.xml
.bat
.qt
.qxd

.sit



Costs

- There are **no costs** to the publishing unit.
- Hardware, set-up, programming, maintenance, and support costs are paid by the UNL Libraries.
Annual fee < \$35,000.



Why put work online?

- Widest possible access—delivered directly to the screen (and hard drive) of any Internet-connected computer, anywhere, anytime.
- Full text is linkable from any web page, email, vita, or hypertext document.
- Build and enhance an online presence, identity, and reputation.



“But my article is already online . . .”

Is it . . .

- Free? Or behind a wall—for paid users only?
- Available off-campus, in hotels, airports, internet cafes?
- Available in Delhi, Lagos, Beijing, or Bagdad?
- At its own linkable URL, or at the end of a Java search syntax?
- Indexed by Google?
- Contributing to the unl.edu domain?
- Accessible to your mother?



A cybernetic experiment:

- “Google” your article title and see what you get.
- Is there a free-access, full-text version listed in the top 10 results?
- If not, then the Digital Commons can possibly help put one there.



What if I change my mind ?

- The depositor or editor can post a **revised** version or change the “metadata” at any time, from any connection.
- Any article can be **withdrawn** by the depositor or editor at any time; it will no longer show up on the site.



What does the Library get out of it ?

- Access
- Dissemination
- Preservation
- Collection development
- Recruitment of faculty
- Enrollment of students



Contact

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UNL Libraries

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site: <http://digitalcommons.unl.edu/>



Places to visit:

Front door: <http://digitalcommons.unl.edu/>

Main directory: <http://digitalcommons.unl.edu/communities.html>

ODIZ: <http://digitalcommons.unl.edu/onlinedictinvertzoology/>

Music Performance: <http://digitalcommons.unl.edu/musicperform/>

Podcasts: <http://digitalcommons.unl.edu/podcast1/>

Ornithology: <http://digitalcommons.unl.edu/biosciornithology/>

Vert Pests: <http://digitalcommons.unl.edu/vpcthirteen/>

Library Faculty Pubs:

Timoleon, Etc. <http://digitalcommons.unl.edu/libraryscience/16/>

De bestiis marinis <http://digitalcommons.unl.edu/libraryscience/17/>

Pynchon chronology <http://digitalcommons.unl.edu/libraryscience/2/>



Google searches

<http://www.google.com/>

Richard Wright Pagan Spain

Lyly Midas

Ultraviolet Birds of Nebraska

Joshua Scottow

primase structure and function

androsynhesmia (= "A group of males gathered together during mating season.")